

∞ The Ward M. Canaday Center ∞  
for Special Collections  
The University of Toledo

Finding Aid

➤ **Siegfried Herliczek Collection on Libbey Owens Ford** ◀

MSS 309

**Size:** 5.5 linear feet

**Provenance:** Donated by Siegfried Herliczek in May, 2016

**Access:** Open

**Related Collections:** Libbey-Owens-Ford, MSS-066

**Collection Summary:** Collection primarily consists of reports by the LOF Technical Center as well as written histories of the development of laminate safety glass.

**Subject(s):** Glass Industry

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**Completed by:** Laura Morillo, November 2016

### **Historical Sketch**

Libbey-Owens-Ford was a long-standing Toledo glass company whose innovations with glass products, like laminate glass for car windshields, improved the lives of millions. Please see the finding aid for MSS-066, the Libbey-Owens-Ford Glass Company Records, for a full timeline of the company's history.

In 1938, Libbey Owens Ford constructed a Technical Center for research and development at 1701 East Broadway Avenue, Toledo. Additions were made to the building in 1941, 1946, and 1958 (the Engineering Wing). The building was closed in 2000 by LOF's parent company Pilkington for financial reasons, and in 2003, the site was sold to Toledo Public Schools for expansions of their school facilities.

Siegfried Herliczek, PhD, was a former employee of the LOF Technical Center and also has experience in research and development for Union Carbide Corporation and LOF's parent company, Pilkington Glass. He has received 15 glass-related patents during his career and is now a glass consultant for Glassig Inc. He earned his BS from the University of Massachusetts and a PhD. in Chemistry from Northeastern University.<sup>1</sup>

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<sup>1</sup> Source for Herliczek biography: Society of Automotive Engineers: <http://training.sae.org/seminars/99002/>

### **Scope and Content Note**

Researchers interested in the history of Libbey-Owens-Ford as well as the development of safety glass in general could make good use of this collection, which primarily contains research materials and reports from the LOF Technical Center, focusing on laminate safety glass vs. temperate safety glass. Temperate safety glass was used regularly until LOF developed sheets of laminate safety glass, and reports in the collection reflect testing and development of these products. Some laminate safety glass reports are published by external companies such as DuPont, Monsanto, and Sekisu, while others address safety codes and legislation affecting the industry.

The collection also holds a variety of publications, articles, and advertisements on LOF laminate safety glass, as well as a variety of correspondence, manuals, presentations, and proposals on its proper manufacture and usage.

There is also a small series on LOF and glass history, including the *New World of Glass* publication and an Oral History Project, both specific to the history of Libbey-Owens-Ford.

This collection is divided into seven series; Advertisements, Articles, Correspondence, Glass Design Manuals and Presentations, History, Reports, and Safety Codes and Standards. A more detailed description of each series follows.

**Siegfried Herliczek  
Collection, 1930-1990**

**Series List**

<b>Series</b>	<b>Description</b>
<b>S1</b>	<p><b>Advertisements</b> 1960's-1995 Arranged alphabetically</p> <p>This small series contains Libbey-Owens-Ford ads and brochures on glass as well as Chevrolet car catalogues.</p>
<b>S2</b>	<p><b>Articles</b> 1930's-1990's Arranged chronologically</p> <p>Contains magazine and trade articles on Libbey-Owens-Ford; also included are a small selection of materials published by LOF itself. Of note are two issues of the LOF publication <i>The Batch</i>, dating 1939 and 1941.</p>
<b>S3</b>	<p><b>Correspondence</b> 1935-1997 Arranged chronologically</p> <p>This series contains correspondence from Libbey-Owens-Ford, intra-company memos, and correspondence from external companies and organizations such as the Automotive Safety Association.</p>
<b>S4</b>	<p><b>Glass Design Manuals and Presentations</b> 1939-1993 Arranged alphabetically</p> <p>This series contains manuals, presentation, seminars, and proposals related to glass manufacturing and production.</p>
<b>S5</b>	<p><b>History</b></p> <p><b>Subseries A: LOF History</b> 1960-1997 Arranged alphabetically</p> <p>This subseries contains history projects, and timelines by Libbey-Owens-Ford or about Libbey-Owens-Ford. Also includes a few "miscellaneous" items related to LOF, including a patent for retention shield window assembly from 1989 and financial reports from 1967.</p>

**Siegfried Herliczek  
Collection, 1930-1990**

	<p><b>Subseries B: Non-LOF</b> 1914-1988 Arranged alphabetically This subseries contains articles, timelines, and other documents on the history of glass and safety glass in general.</p>
<b>S6</b>	<p><b>Reports</b></p> <p><b>Subseries A: LOF</b> 1956-1990's Arranged alphabetically  This subseries contains reports by Libbey-Owens-Ford; the majority of the reports are on the development and testing of laminate safety glass over temperate safety glass.</p> <p><b>Subseries B: External Companies</b> 1934-1988 Arranged alphabetically  This subseries contains reports on safety glass from companies such as Ford and Pector and institutions such as Cornell University.</p> <p><b>Subseries C: DuPont</b> 1940's-1983 Arranged alphabetically  This subseries contains reports from DuPont on safety glass.</p> <p><b>Subseries D: Fisher Body</b> 1960-1980 Arranged alphabetically  This subseries contains reports on safety glass by Fisher Body.</p> <p><b>Subseries E: Monsanto</b> 1984 Arranged alphabetically  This subseries contains reports by Monsanto on formulas and chemicals used in manufacturing.</p> <p><b>Subseries F: SAE</b> 1940's-1960's Arranged alphabetically</p>

**Siegfried Herliczek  
Collection, 1930-1990**

	<p>This subseries contains reports by SAE, the Society of Automotive Engineers, on safety glazing.</p> <p><b>Subseries G: Safety</b> 1913-1995 Arranged alphabetically</p> <p>This subseries contains reports dealing with safety standards and tests of safety glass.</p> <p><b>Subseries H: Sekisui</b> 1979-1990's Arranged alphabetically</p> <p>This series contains reports by Sekisui, a Japanese company, dealing with safety glazing and safety glass.</p>
<b>S7</b>	<p><b>Safety Codes and Safety Standards</b> 1940-1989 Arranged alphabetically</p> <p>This series contains safety codes by American National Standards and both federal and state legislation related to safety glass.</p>

**Siegfried Herliczek  
Collection, 1930-1990**

**Folder List**

<b>Box</b>	<b>Folder</b>	<b>Item</b>
		<b>SERIES 1: ADVERTISING</b>
1	1	Chevrolet Car Catalogues 1960's-1970's
1	2	Glass Ads – LOF 1972-1995
2	39	LOF Brochures 1986-1997
		<b>SERIES 2: ARTICLES</b>
1	3	Articles Undated
1	4	Articles 1930's
1	5	Articles 1940's
1	6	Articles 1950's
1	7	Articles 1960's
1	8	Articles 1970's
1	9	Articles 1980's
1	10	Articles 1990's
		<b>SERIES 3: CORRESPONDENCE</b>
1	16	Automotive Safety Association Correspondence 1950-1959
1	17	Automotive Safety Association Correspondence 1960-1965
1	18	Automotive Safety Association Correspondence 1966-1970
1	19	AYROX – Correspondence 1997
1	20	Correspondence 1935/36
1	21	Correspondence 1937
1	22	Correspondence 1939/1954
1	23	Correspondence 1944
1	24	Correspondence 1945
1	25	Correspondence 1950
1	26	Correspondence 1955-1985
1	27	Correspondence 1956
1	28	Correspondence 1957
1	29	Correspondence 1957-1960
1	30	Correspondence 1958
1	31	Correspondence 1958-1961 part 1
1	32	Correspondence 1958-1961 part 2
1	33	Correspondence 1959
1	34	Correspondence 1960-1961
1	35	Correspondence 1960
1	36	Correspondence 1961 part 1
1	37	Correspondence 1961 part 2

**Siegfried Herliczek  
Collection, 1930-1990**

1	38	Correspondence 1961 part 3
1	39	Correspondence 1962-1963
1	40	Correspondence 1964
1	41	Correspondence 1966
1	42	Correspondence 1967
2	1	Correspondence 1968
2	2	Correspondence 1971
2	3	Correspondence 1972-1973
2	4	Correspondence 1974
2	5	Correspondence 1975
2	6	Correspondence 1977
2	7	Correspondence 1980
2	8	Correspondence 1981-1982
2	9	Correspondence 1988
2	10	Correspondence 1989
2	11	Correspondence 1992-1993
2	12	Correspondence 1994-1997
2	14	DuPont-Monsanto Correspondence 1980
2	15	Memos on Tests on Glass 1934
		<b>SERIES 4: GLASS DESIGN MANUALS AND PRESENTATIONS</b>
2	16	Butacite Manual 1993
2	17	Characteristics of Safety Glass 1939
2	18	Comparison of PVB shaping Techniques at LOF 1984
2	19	Cutting, Seaming, and Drilling of Glass Manual 1975
2	20	Designing with Glass 1998
2	21	Engelhard Screen-printing Seminar n.d.
2	22	Engineer Standards Manual 1995
2	23	European Glass Seminar 1990
2	24	Glass Cutting Proposals 1990's
2	25	Glass Manual 1946
2	26	Good Driver Visibility Presentation n.d.
2	27	Laminated Glass Corporation PCG product introduction 1980's
2	29	Modeling of Glass Presentation 1998
2	30	Optics of Laminated Glass 1980
2	31	Proposed Glazing Manual 1963-1964
2	32	SAE Seminar on Glass n.d.
2	33	Stapp Conference Presentation 1970
		<b>SERIES 5: HISTORY</b>
		<b>Subseries A: LOF</b>
2	34	Automotive Glazing; Auto Glass Book of Facts 1961



**Siegfried Herliczek  
Collection, 1930-1990**

2	35	Glass as a Structural Material LOF History 1960
2	28	LOF Financial Trends/Annual Reports 1967
2	36	Glass autos; yesterday today tomorrow – LOF History part 1 n.d.
3	2	Glass autos; yesterday today tomorrow – LOF History part 2 n.d.
2	38	Leave the Rock & Swim: A History of the LOF Company
2	40	Oral History Project part 1 1967-1968
2	41	Oral History Project part 2 1967-1968
2	42	Oral History Project part 3 1967-1968
6	7	Patent for Retention Shield Window Assembly, 1989
2	44	Timeline of LOF firsts 1971-1976
2	45	The Auto Glass Book of Facts 1961
2	46	The New World of Glass Ch. 1,3,4 1990
2	47	The New World of Glass Ch. 5-10 1990
2	48	The New World of Glass Ch. 10-13 1990
		<b>Subseries B: Non-LOF</b>
2	49	Automotive Glass History Presentation n.d.
2	50	Chronological History of Laminated Glass Development 1914-1942
2	37	Evolution of Safety Glass 1941
3	3	Glass & Civilization/History n.d.
2	43	Ford Vehicles Photographs, early 1910's
3	4	History of Glass Articles 1961
3	5	History & Development of Laminated Safety Glass n.d
3	6	History: Glass Timeline 1973
3	1	History of Safety Glass – Non LOF 1974-1988
3	7	Theory of Broken Glass Essay n.d.
		<b>SERIES 6: REPORTS</b>
		<b>Subseries A: LOF</b>
3	8	Automotive Glazing n.d.
3	9	Automotive Glazing; 1956-1957 part 1
3	10	Automotive Glazing 1956-1957 part 2
3	11	Automotive Glazing; 1958 part 1
3	12	Automotive Glazing; 1958 part 2
3	13	Automotive Glazing; 1960
3	14	Automotive Glazing; 1960 – FTC Investigation of Tempered Glass
3	15	Automotive Glazing; 1961 part 1
3	16	Automotive Glazing; 1961 part 2
3	17	Automotive Glazing; 1962 part 1
3	18	Automotive Glazing; 1962 part 2
3	19	Automotive Glazing; 1963
3	20	Automotive Glazing Committee; Glazing Safety Sub-group 1965
3	21	Automotive Glazing Committee; Glazing Safety Sub-Group 1967
3	22	Automotive Glazing – Detag 1962

**Siegfried Herliczek  
Collection, 1930-1990**

3	23	Automotive Glazing FTC Investigation 1960
3	24	Automotive Glazing; Ford Report n.d.
3	25	Automotive Glazing Ford Report 1960
3	26	Automotive Glazing Materials Seminar n.d.
3	27	Automotive Glazing Materials and Subcommittees 1960
3	28	Automotive Glazing; Roof Panels n.d.
3	29	Automotive Glazing; Roof Panels Liberty Mirrors n.d.
3	30	Automotive Glazing, Sidelight Edge Identification 1964-1968
3	31	Automotive Glazing. Sidelight Kalspan-Dot Project 1974
3	32	Automotive Manufacturers Association 1961
3	33	Automotive Safety Glazing Report 1960-1964
4	18	CAD/CAM Drawings 1988
4	1	Formulas 1979
4	2	Laminate vs Tempered Glass 1957-1966
4	15	LOF Blue Corvette Dye Change 1977
4	3	LOF Reports 1940's
4	4	LOF Reports 1950's
4	5	LOF Reports 1960's part 1
4	6	LOF Reports 1960's part 2
4	7	LOF Reports 1970's part 1
4	8	LOF Reports 1970's part 2
4	9	LOF Reports 1970's part 3
4	10	LOF Reports 1980's
4	11	LOF Reports 1990's
6	10	Stone Impact on Windshields 1970-1980
4	12	Windshield Investigation 1969
6	9	Windshields Test Slides
		<b>Subseries B: External Companies</b>
4	14	Automobile Manufacturer Association Reports 1963
4	19	Cornell Reports; Automotive Crash Injury Research 1964 part 1
4	20	Cornell Reports; Automotive Crash Injury Research 1964 part 2
4	13	Delog 1953
2	13	Department of Public Health at Cornell U. Crash Injury Research 1958
4	30	Electrical Testing Laboratories 1934
4	33	Ford Reports 1950
4	34	Maryland Casualty Company Reports 1947
5	2	Pector Co. Research n.d.
5	10	STS Incorporation Reports 1970's
5	11	National Conservation Bureau tests on various safety glass 1940's
		<b>Subseries C: DuPont</b>
4	21	DuPont 1940's
4	22	DuPont 1950's

**Siegfried Herliczek  
Collection, 1930-1990**

4	23	DuPont 1970's
4	24	DuPont 1980's
4	25	DuPont 1978-1981
4	26	DuPont 1986-1987
4	17	DuPont Butacite Reports 1990
4	27	DuPont on Safety of Tempered Glass 1988
4	28	DuPont New Plastic 1978-1980
4	29	DuPont New Plastic 1980-1983
		<b>Subseries D: Fisher Body</b>
4	31	Fisher Body 1960-1980
4	32	Fisher Body Reports 1967
		<b>Subseries E: Monsanto</b>
4	16	Monsanto Blue Corvette Sun Roof and Plastic Dyeing 1979
4	35	Monsanto Research 1970-1988
5	1	Monsanto Research 1984
		<b>Subseries F: SAE</b>
5	3	SAE 1940's
5	4	SAE 1950's
5	5	SAE 1960's
5	6	SAE: revision of safety glazing code 1949
		<b>Subseries G: Safety</b>
5	17	American Standards Association Research 1930's
5	18	American Standard Association Research 1940's
5	19	American Standards Association Research 1960's
5	33	Safety and Collision Research n.d.
5	36	Safety Glass Literature Review 1913-1951
5	37	Safety Glass Production Process 1947
5	38	Safety Glass Reports 1961
5	39	Sidelights Research 1966
5	40	Statistics Reports; Advance Glazing Research Team 1995
5	41	Strength and Static Fatigue of Glass 1959
6	1	Surface Studies; Fracture Patterns n.d.
6	2	Survey of Window Glass Broken n.d.
6	3	Tempered Glass Evaluation n.d.
6	4	Tempered Glass Reports n.d.
6	5	USA Investigations of Safety Glass in Automobiles n.d.
		<b>Subseries H: Sekisui</b>
5	7	Sekisui Research 1979-1982
5	8	Sekisui Research 1979-1985
5	9	Sekisui Reports 1990's

**Siegfried Herliczek  
Collection, 1930-1990**

		<b>SERIES 7: SAFETY CODES AND SAFETY STANDARDS</b>
5	12	American National Standard; Safety Code 1972
5	13	American National Standards 1980's
5	14	American National Standard; Safety Code 1983
5	15	American Safety Code 1940's
5	16	American Safety Code 1950's
5	20	American Standards Safety Code n.d.
5	21	Automotive Glazing Federal Legislature part 1 n.d.
5	22	Automotive Glazing Federal Legislature part 2 n.d.
5	23	Automotive Glazing Federal Legislature part 3 n.d.
5	24	Automotive Glazing; Legislative Measures – State – California n.d.
5	25	Automotive Glazing Legislative Measures State Florida/Illinois/Kansas n.d.
5	26	Automotive Glazing Legislative Measures State General n.d.
5	27	Automotive Glazing Legislative Measure State Ohio/Washington/Wisconsin n.d.
5	28	Automotive Glazing Legislative Measures State Maryland /Massachusetts n.d.
5	29	Automotive Glazing Legislative Measures States Missouri/New York n.d.
5	30	Automotive Glazing Legislative Measures State Virginia part 1 n.d.
5	31	Automotive Glazing Legislative Measures State Virginia part 2 n.d.
5	32	Safety Code 1972
6	6	USA Standard: Safety Codes 1969